

## Chemical Content Analysis

Client	Vitality CBD Ltd.
Product	300mg Muscle Balm Natural Flavour
Volume	50 ml
Batch No.	TH270819BS
Lab ID	CBD0334
Date	15.11.2019
Analysis by	Lawrence Theobald
Approved by	Mark Portsmouth

## Method Summary:

0.2g of sample was measured with a balance and diluted with IPA to give a sample at 10 mg/ml. The sample was then diluted further with Methanol.

The sample was analysed on an Agilent HPLC with a DAD detector. The system was calibrated using standard solutions of eleven Cannabinoids. Cannabinoid concentrations in the sample were determined using the relevant calibration lines.

The results are presented in Table 1 and Figure 1 below.

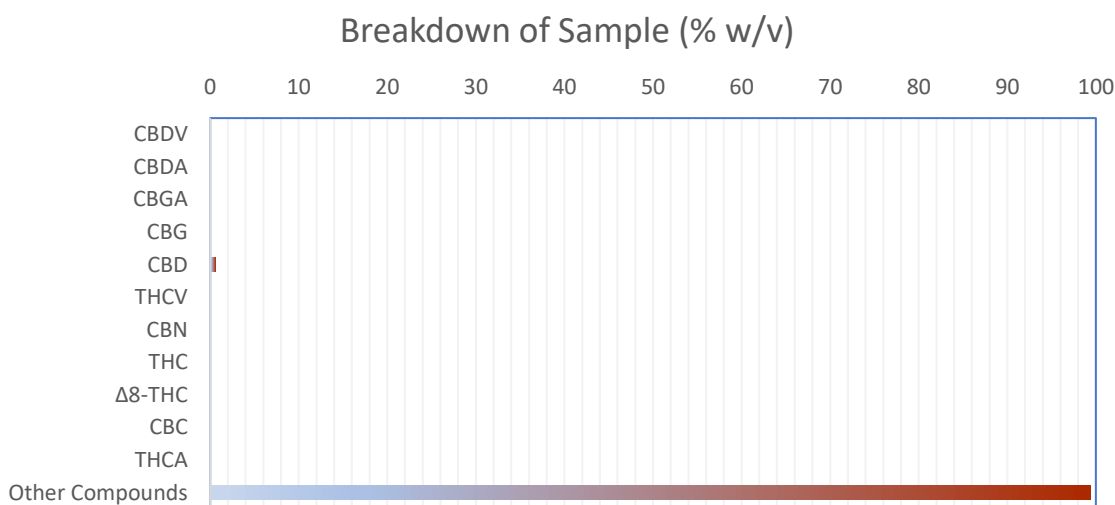
**PASSED**

## Results

Cannabinoid Compound (Abbreviation)	CAS Number	LoQ (µg/mL)	Target Concentration (mg/mL)	Measured Concentration (mg/ml)	PASS/FAIL
Cannabidivarin (CBDV)	24274-48-4	0.1	No Target	BQL	N/A
Cannabidiolic Acid (CBDA)	1244-58-2	0.1	No Target	BQL	N/A
Cannabigerolic Acid (CBGA)	25555-57-1	0.1	No Target	BQL	N/A
Cannabigerol (CBG)	25654-31-3	0.1	No Target	BQL	N/A
Cannabidiol (CBD)	13956-29-1	0.1	6.00	5.89	N/A
Tetrahydrocannabivarin (THCV)	1972-08-3	0.1	No Target	BQL	N/A
Cannabinol (CBN)	521-35-7	0.1	Legal Limit	BQL	PASS
Δ9-Tetrahydrocannabinol (THC)	1972-08-3	0.1	Legal Limit	BQL	PASS
Δ8-Tetrahydrocannabinol (Δ8-THC)	5957-75-5	0.1	Legal Limit	BQL	PASS
Cannabichromene (CBC)	20675-51-8	0.2	No Target	BQL	N/A
Δ9-Tetrahydrocannabinolic Acid (THCA)	23978-85-0	0.2	Legal Limit	BQL	PASS

**Table 1-** Results. LOQ- Limit of Quantitation. BQL- Below Quantitation Limit

**Figure 1-** Proportion of sample breakdown



## Comments

300 mg of CBD in 50 ml is equivalent to 6 mg/ml

**Acceptance Criteria.** All prohibited Cannabinoids below legal limits:

CBN: a maximum of 1mg per container

Total THC, THCA and Δ8-THC: a maximum of 1mg per container

This sample passes all testing criteria